SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

(ii) TITLE OF INVENTION: DNA Sequencing by Stepwise Extension with Oligonucleotide Blocks

(iii) NUMBER OF SEQUENCES: 8

(iv) CORRESPONDENCE ADDRESS:
    (A) ADDRESSEE: Stephen C. Macevicz
    (B) STREET: 21890 Rucker Drive
    (C) CITY: Cupertino
    (D) STATE: California
    (E) COUNTRY: USA
    (F) ZIP: 95014

(v) COMPUTER READABLE FORM:
    (A) MEDIUM TYPE: 3.5 inch diskette
    (B) COMPUTER: IBM compatible
    (C) OPERATING SYSTEM: Windows 3.1/DOS 5.0
    (D) SOFTWARE: Microsoft Word for Windows,
vers. 2.0

(vi) CURRENT APPLICATION DATA:
    (A) APPLICATION NUMBER:
    (B) FILING DATE:
    (C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:
    (A) APPLICATION NUMBER:
    (B) FILING DATE:

(viii) ATTORNEY/AGENT INFORMATION:
    (A) NAME: Stephen C. Macevicz
    (B) REGISTRATION NUMBER: 30,285
    (C) REFERENCE/DOCKET NUMBER: peo1

(ix) TELECOMMUNICATION INFORMATION:
    (A) TELEPHONE: (415) 638-5552
    (B) TELEFAX:

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 37 nucleotides
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

CCTCTCCCTT CCCTCTCCTC CCTCTCCCCT CTCCCTC

37

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 21 nucleotides
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GAGGAGAGGG AAGGAGAGGA G   21

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 21 nucleotides
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GGAGGAGAGG GAAGGAGAGG A   21

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 21 nucleotides
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GGGAGGAGAG GGAAGGAGAG G   21

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 21 nucleotides
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

AGGGAGGAGA GGGAAGGAGA G   21

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 18 nucleotides
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

GAGGGAGAGG GGAGAGGG   18

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 18 nucleotides
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

ACCGTCTCCG GGAGCTGC   18

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 21 nucleotides
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

CCTCTCCCTT CCCTCTCCTC C   21